

Claims

1. A method for arresting, protecting and/or preserving an organ which includes administering effective amounts of (i) a potassium channel opener or agonist and/or an adenosine receptor agonist and (ii) local anaesthetic to a subject in need thereof.
2. A method as claimed in claim 1, wherein the organ is either intact in the body of the subject or isolated.
3. A method as claimed in claim 1 or 2, wherein the organ is a circulatory organ, respiratory organ, urinary organ, digestive organ, reproductive organ, neurological organ or somatic cell.
4. A method as claimed in claim 3, wherein the circulatory organ is a heart.
5. A method as claimed in claim 4, which is used to arrest, protect and/or preserve the heart during open-heart surgery, reduce heart damage before, during or following cardiovascular intervention or protect those portions of the heart that have been starved of normal flow, nutrients and/or oxygen.
6. A method as claimed in any one of claims 1 to 5, wherein the potassium channel opener or agonist is selected from nicorandil, diazoxide, minoxidil, pinicadil, aprikalim, cromokulim, NS-1619 (1,3-dihydro-1-[2-hydroxy5(trifluoromethyl)phenyl]5-(trifluoromethyl)2-H-benzimidazol-one), amlodipine, Bay K 8644(L-type)(1,4-dihydro-26-dimethyl-5-nitro-4[2(trifluoromethyl)phenyl]-3-pyridine carboxylic acid (methyl ester)), bepridil HCl (L-type), calcisepetine (L-type), omega-conotoxin GVIA (N-type), omega-conotoxin MVIIC (Q-type), cyproheptadine HCl, dantrolene sodium (Ca^{2+} release inhibitor), diltiazem HCl (L-type), flodipine, flunarizine HCl ($\text{Ca}^{2+}/\text{Na}^{+}$), fluspirilene (L-type), HA-1077 2HCl(1-(5 isoquinoliny) sulphonyl) homo piperazine.HCl), isradipine, loperamide HCl, manoalide (Ca^{2+} release inhibitor), nicardipine HCl (L-type), nifedipine (L-type), niguldipine HCl (L-type), nimodipine (L-type), nitrendipine (L-type), pmozide (L- and T- type), ruthenium red, ryanodine (SR channels), taicatoxin, verapamil HCl (L-type), methoxy-verapamil HCl (L-type), YS-035 HCl (L-type)N[2(3,4-

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14. A method as claimed in claim 13, wherein the concentration of potassium is up to about 10mM.

15. A method as claimed in any one of claims 12 to 14, wherein the buffer is Krebs-Henseleit, St. Thomas No. 2 solution, Tyrodes solution, Fremes solution, Hartmanns solution or Ringers-Lactate.
16. A method as claimed in any one of claims 11 to 15, wherein the pharmaceutically acceptable carrier, diluent, adjuvant and/or excipient has low concentrations of magnesium.
17. A method as claimed in claim 16, wherein the concentration of magnesium is up to about 2.5mM.
18. A method as claimed in any one of claims 1 to 17, wherein the active ingredients (i) and (ii) are administered together with another medicament.
19. A method as claimed in claim 18, wherein the medicament is dipyridamole or a clot-busting drug.
20. A method as claimed in claim 19, wherein the clot-busting drug is streptokinase.
21. A method as claimed in any one of claims 1 to 20, wherein the subject is a neonate/infant.
22. A method as claimed in any one of claims 4 to 21, wherein the administration in cardiovascular applications is achieved by mixing the active ingredients with the blood of the subject and/or a subject having a similar blood type.
23. A method as claimed in any one of claims 1 to 22, wherein arrest is achieved by either continuous or intermittent delivery.
24. A method as claimed in any one of claims 1 to 23, wherein the arrest occurs at temperatures of about 15°C to about 37°C.
25. Use of (i) a potassium channel opener or agonist and/or an adenosine receptor agonist and (ii) a local anaesthetic in the manufacture of a medicament for arresting, protecting and/or preserving an organ.
26. A (i) potassium channel opener or agonist and/or an adenosine receptor agonist and (ii) a local anaesthetic for use in arresting, protecting and/or preserving an organ.

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27. A method for arresting, protecting and/or preserving an organ which comprises adding a composition which includes effective amounts of (i) a potassium channel opener or agonist and/or an adenosine receptor agonist and (ii) a local anaesthetic to the organ.
- 5 28. A pharmaceutical or veterinary composition which includes effective amounts of (i) a potassium channel opener or agonist and/or an adenosine receptor agonist and (ii) a local anaesthetic.
29. A composition as claimed in claim 28, wherein the potassium channel opener or agonist is selected from nicorandil, diazoxide, minoxidil, pinicadil, 10 aprikalim, cromokulim, NS-1619 (1,3-dihydro-1-[2-hydroxy5(trifluoromethyl)phenyl]5-(trifluoromethyl)2-H-benimidazol-one), amlodipine, Bay K 8644(L-type)(1,4-dihydro-26-dimethyl-5-nitro-4[2(trifluoromethyl)phenyl]-3-pyridine carboxylic acid (methyl ester)), bepridil HCl (L-type), calcisepine (L-type), omega-conotoxin GVIA (N-type), omega-conotoxin MVIIC (Q-type), cyproheptadine HCl, dantrolene sodium (Ca^{2+} release inhibitor), diltiazem HCl (L-type), flodipine, flunarizine HCl ($\text{Ca}^{2+}/\text{Na}^+$), fluspirilene (L-type), HA-1077 2HCl(1-(5 isoquinoliny) sulphonyl) homo piperazine.HCl), isradipine, loperamide HCl, manoalide (Ca^{2+} release inhibitor), nicardipine HCl (L-type), nifedipine (L-type), niguldipine HCl (L-type), 15 nimodipine (L-type), nitrendipine (L-type), pmozide (L- and T- type), ruthenium red, ryanodine (SR channels), taicatoxin, verapamil HCl (L-type), methoxy-verapamil HCl (L-type), YS-035 HCl (L-type)N[2(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy N-methyl benzene ethanamine HCl and AV blockers.
- 20 30. A composition as claimed in claim 29, wherein the AV blocker is adenosine.
31. A composition as claimed in claims 28 to 30, wherein the adenosine receptor agonist is selected from N^6 -cyclopentyladenosine (CPA), N-ethylcarboxamido adenosine (NECA), 2-[p-(2-carboxyethyl)phenethyl]-amino- 30 5'-N-ethylcarboxamido adenosine (CGS-21680), 2-chloroadenosine, N^6 -[2-(3,5-dimethoxyphenyl)-2-(2-methoxyphenyl)]ethyladenosine, 2-chloro- N^6 -

- cyclopentyladenosine (CCPA), N-(4-aminobenzyl)-9-[5-(methylcarbonyl)-beta-D-ribofuranosyl]-adenine (AB-MECA), ([IS-[1a,2b,3b,4a(S*)]]-4-[7-[[2-(3-chloro-2-methylpropyl)amino]-3H-imidazole[4,5-b]pyridyl-3-yl]cyclopentane carboxamide (AMP579), N⁶-(R)-phenylisopropyladenosine (R-PLA), aminophenylethyladenosine 9APNEA) and cyclohexyladenosine (CHA).
- 5 32. A composition as claimed in claims 28 to 31, wherein the local anaesthetic is selected from mexiletine, diphenylhydantoin, prilocaine, procaine, mivacaine and Class 1B antiarrhythmic agents.
33. A composition as claimed in any one of claims 28 to 32 wherein the
- 10 composition is a cardioplegic or cardioprotectant composition.
34. A composition as claimed in any one of claims 28 to 33, wherein active ingredients (i) and (ii) are administered together with a pharmaceutically acceptable carrier, diluent, adjuvant and/or excipient.
35. A composition as claimed in claim 34, wherein the pharmaceutically
- 15 acceptable carrier, diluent, adjuvant and/or excipient, is a buffer having a pH of about 6 to about 9.
36. A composition as claimed in claim 34 or 35, wherein the pharmaceutically acceptable carrier, diluent, adjuvant and/or excipient has low concentrations of potassium.
- 20 37. A composition as claimed in claim 36, wherein the concentration of potassium is up to about 10mM.
38. A composition as claimed in any one of claims 35 to 37, wherein the buffer is Krebs-Henseleit, St. Thomas No. 2 solution, Tyrodes solution, Frenes solution, Hartmanns solution or Ringers-Lactate.
- 25 39. A composition as claimed in any one of claims 34 to 38, wherein the pharmaceutically acceptable carrier, diluent, adjuvant and/or excipient has low concentrations of magnesium.
40. A composition as claimed in claim 39, wherein the concentration of magnesium is up to about 2.5mM.

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41. A composition as claimed in any one of claims 29 to 40, wherein the active ingredients (i) and (ii) are administered together with another medicament.

42. A composition as claimed in claim 41, wherein the medicament is
5 dipyridamole or a clot-busting drug.

43 A composition as claimed in claim 42, wherein the clot-busting drug is streptokinase.

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